

ODM O5P500 IFM Temperature Sensors Retroreflective O5P-FPKG/US100

Our Product Introduction

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Basic Information

- Place of Origin: Germany
- Brand Name: IFM
- Certification: CE
- Model Number: PN7094
- Minimum Order Quantity: 1
- Price: USD
- Packaging Details: 15,10 x 15,40 x 4,60
- Delivery Time: 10-12Days
- Payment Terms: L/C, T/T
- Supply Ability: 100



Product Specification

- Supply Voltage: 10-30 V DC
- Certifications: CE, UL, RoHS
- Measurement Range: -50 To 400 Degrees Celsius
- Storage Temperature: -40 To 85 Degrees Celsius
- Accuracy: ± 0.2 Degrees Celsius
- Connection Type: M12 Connector, Cable
- Protection Rating: IP67
- Operating Temperature: -25 To 85 Degrees Celsius
- Response Time: ≤ 10 Ms
- Housing Material: Stainless Steel
- Process Connection: G1/4, G1/2, 1/2 NPT
- Special Features: High Accuracy, Compact Design
- Output Signal: 4-20 MA, 0-10 V, IO-Link
- Electrical Connection: 2-wire, 3-wire, 4-wire
- Highlight: **O5P500 IFM Temperature Sensors.**



Product Description

IFM Retro-reflective sensor O5P500 O5P-FPKG/US100

The IFM O5P500 O5P-FPKG/US100 is a retro-reflective sensor, manufactured by IFM Electronic GmbH. Here's some information about the sensor:

1. Model: O5P500 O5P-FPKG/US100
 2. Manufacturer: IFM Electronic GmbH
 3. Function: The retro-reflective sensor is designed to detect the presence or absence of objects based on reflected light. It uses a retro-reflective target to reflect the emitted light back to the sensor for detection.
 4. Sensing Principle: The sensor emits a beam of light towards a retro-reflective target. The target reflects the light back to the sensor, and the sensor detects the presence or absence of the target based on the intensity of the reflected light.
 5. Sensing Range: The specific sensing range of the sensor depends on the model variant. In this case, the "US100" in the model name suggests a sensing range of up to 100 mm. However, it's always recommended to refer to the product documentation or datasheet for the exact sensing range of this particular model.
 6. Electrical Connection: The sensor supports a specific electrical connection type, indicated by the "/US" in the model name. The exact type of electrical connection may vary, and you should consult the product documentation or datasheet for more details.
 7. Housing Type: The sensor is likely housed in a specific enclosure or housing design. Unfortunately, I do not have specific information about the housing type for this particular model.
- For detailed specifications, installation guidelines, and compatibility information for the IFM O5P500 O5P-FPKG/US100 retro-reflective sensor, it is recommended to consult the official documentation provided by IFM Electronic GmbH or contact their technical support. They will be able to provide you with accurate and up-to-date information based on your specific requirements and the latest product information available.

Product characteristics

Type of light	red light
Housing	rectangular

Application

Special feature	polarisation filter
Function principle	Retro-reflective sensor

Electrical data

Operating voltage [V]	10...36 DC; ("supply class 2" to cULus)
Current consumption [mA]	20
Protection class	II
Reverse polarity protection	yes
Type of light	red light
Wave length [nm]	624

Outputs

Electrical design	PNP
Output function	light-on/dark-on mode; (programmable)
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	2000
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Range referred to prismatic reflector [m]	0.075...10; (Prismatic reflector Ø 80 E20005)
Range adjustable	yes
Max. light spot diameter [mm]	250
Light spot dimensions refer to	at maximum range
Polarisation filter available	yes

Operating conditions

Ambient temperature [°C]	-25...60
Protection	IP 67

Tests / approvals

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Mechanical data

Weight [g]	67.5
Housing	rectangular
Dimensions [mm]	56 x 18.2 x 46.8
Materials	housing: PA; bezel: stainless steel; operator interface: TPU
Lens material	PMMA
Lens alignment	side lens

Displays / operating elements

Display	switching status	1 x LED, yellow
Teach function	yes	

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Remarks

Pack quantity	1 pcs.
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Electrical connection

Connection	Connector: 1 x M12; coding: A
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